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NOTICE OF ALLOWANCE AND FEE(S) DUE

77042

Perkins Coie LLP P.O. Box 1208

Seattle, WA 98111-1208

7590

09/01/2010

EXAMINER LE, MIRANDA

PAPER NUMBER

ART UNIT

2159 DATE MAILED: 09/01/2010

١	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
٠	10/800,163	03/12/2004	Vijay Deshmukh	67272-8062.US01	9062

TITLE OF INVENTION: METHOD AND APPARATUS FOR REPRESENTING FILE SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT **QUERIES**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	12/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of r a) specifying a new corres	maintenance fees will spondence address; a	be mailed to the currer nd/or (b) indicating a sep	nt correspondence address as parate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				(s) Transmittal. This c ers. Each additional p	certificate cannot be used	for domestic mailings of the for any other accompanying tent or formal drawing, must
Perkins Coie L P.O. Box 1208 Seattle, WA 981		/2010	Stat addı	reby certify that this es Postal Service with ressed to the Mail S	icate of Mailing or Trar Fee(s) Transmittal is bein a sufficient postage for fi top ISSUE FEE addres 0 (571) 273-2885, on the	ng deposited with the United rst class mail in an envelope s above, or being facsimile
						(Depositor's name)
						(Signature)
		<u> </u>				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	. A	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,163 TITLE OF INVENTION QUERIES	03/12/2004 V: METHOD AND APPA	ARATUS FOR REPRESE	Vijay Deshmukh ENTING FILE SYSTEM N	METADATA WITHE	67272-8062.US01 N A DATABASE FOR E	9062 EFFICIENT
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DU	E DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	12/01/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]		
LE, MIF	RANDA	2159	707-825000			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	condence address (or Cha B/122) attached. dication (or "Fee Address 22 or more recent) attach c ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	nge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON This ified below, no assignee	2. For printing on the p (1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or type data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY)	o 3 registered patent a vely, e firm (having as a magent) and the names rneys or agents. If no printed.	tember a of up to name is 3	document has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Corp	oration or other private g	roup entity 🚨 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 Payment of Fee(s): (Plean A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depo 	rd. Form PTO-2038 is authorized to charge	s attached. the required fee(s), any c	
	ns SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon			
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a registe	ered attorney or agent; or	the assignee or other party in
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10/800,163	03/12/2004	Vijay Deshmukh	67272-8062.US01	9062
77042 7590 09/01/2010 Perkins Coie LLP			EXAMINER	
			LE, MIRANDA	
P.O. Box 1208			ART UNIT	PAPER NUMBER
Seattle, WA 98111-1208			2159	
			DATE MAILED: 09/01/2010	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 211 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 211 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	_
	10/800,163	DESHMUKH ET AL.	
Notice of Allowability	Examiner	Art Unit	
·		2.50	
	MIRANDA LE	2159	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	re
1. This communication is responsive to <u>RCE file 06/28/10</u> .			
2. X The allowed claim(s) is/are <u>1-3,5,6,9-12,14,15,18,39 and 4</u>	<u>10</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority unalled all blooms. a) ☐ All blooms. b) ☐ Some* clooms. c) ☐ None of the: d) ☐ Certified copies of the priority documents have d) ☐ Certified copies of the priority documents have 	e been received.		
3. ☐ Copies of the certified copies of the priority do	• •		
International Bureau (PCT Rule 17.2(a)).		3 11	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MA FOR THE DEPOSIT OF E	TERIAL must be submitted. Note the IOLOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	Informal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
	Paper No	o./Mail Date	
3. 🗵 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 06/28/10, 08/04/10	7. ☐ Examiner	s Amendment/Comment	
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner	's Statement of Reasons for Allowance	
of Biological Material	9.		
/Miranda Le/		<u> </u>	
Primary Examiner, Art Unit 2159			
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Application/Control Number: 10/800,163

Art Unit: 2159

DETAILED ACTION

This communication is responsive to a RCE amendment filed 06/28/2010.

Information Disclosure Statement

Applicants' Information Disclosure Statements, filed 06/28/2010 and 08/04/10, have been received, entered into the record, and considered. See attached form PTO-1449.

Statement of Reasons for Allowance

Claims 1-3, 5-6, 9-12, 14-15, 18, 39-40 are allowed.

The following is an examiner's statement of reasons for allowance.

The present invention is directed to a method for creating a file information database. A storage server having a directory structure is scanned or "file walk". Data regarding the directory structure is collected. Identification (ID) numbers are assigned to directories in the directory structure according to a depth first search (DFS) order. A table including the ID numbers is then written to store the results of a file walk so that they can easily be accessed and searched by an administrator.

All independent claims 1, 10, 39 recite, or similarly recite, in combination with the remaining elements, the methods/machine readable medium comprising:

Deleted: writing a data structure including the first ID number, the second ID number and a relation between the first directory and the second directory, wherein the relation indicates that the first directory is an immediate child of the second directory, and wherein the data structure is traversable based on the ID numbers to determine relationships between directories of the storage server;¶ receiving a request to determine an immediate child or parent of a specified directory, wherein the specified directory is the first directory or the second directory;¶ searching the data structure for any relation indicative that the specified directory is a child or a parent in said relation, wherein said searching produces as a result said relation between the first directory and the second directory; and ¶ determining the immediate child or parent of the specified directory based on said any relation.¶

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The closest prior art, Lord et al (US 6,961,909), Perttunen et al (US 6,563,521), Watkins et al (US 6,457,017) show similar methods for providing a web browser display of a selected part of a tree-structured directory of hierarchically-related entities in a computer system. However, Lord et al, Perttunen et al, and Watkins et al., singularly or in combination, still fail to anticipate or render the above cited limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James K. Trujillo, can be reached at (571) 272-3677. The fax number to this Art Unit is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Application/Control Number: 10/800,163 Page 4

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Miranda Le/ Primary Examiner, Art Unit 2159